

NOTE: If you own a 1985 or later model, first check the Supplement at the back of the book for any new service information.

CHAPTER EIGHT

STEERING, SUSPENSION AND FRAME

This chapter describes repair and maintenance of the front and rear wheels, front forks, steering components and rear axle.

Refer to **Table 1** for torque specifications for both the front and rear suspension components. **Table 1** and **Table 2** are located at the end of this chapter.

FRONT WHEEL

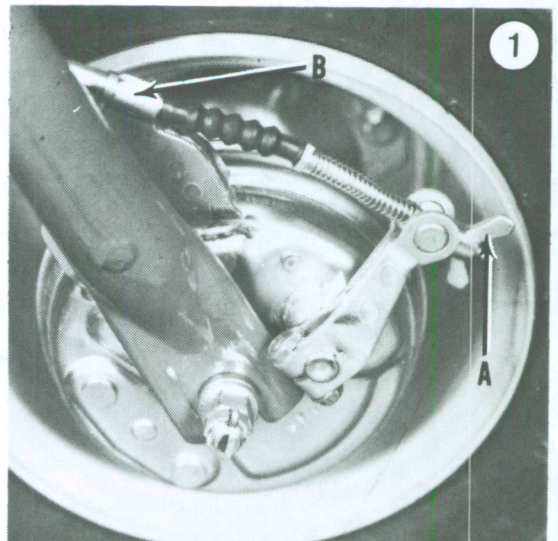
Removal/Installation

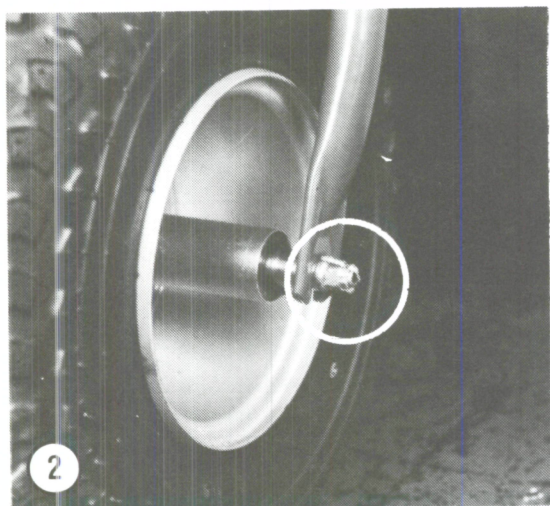
1. Place the ATC on level ground and set the parking brake. Block the rear wheels so the vehicle will not roll in either direction.
2. Jack up the front of the vehicle with a small hydraulic jack or place wood blocks under the engine. If a small jack is used, perform the following:
 - a. Place the jack either under the frame or the engine crankcase.
 - b. Place a piece of wood between the jack and the engine crankcase if this location is used.
 - c. Apply just enough jack pressure to take any weight off the front wheel.
3. On models equipped with a front brake, perform the following:
 - a. Completely unscrew the front brake cable adjusting nut (A, **Figure 1**).
 - b. Withdraw the brake cable from the pivot pin in the brake lever.
 - c. Remove the brake cable from the receptacle on the brake panel (B, **Figure 1**).
- 4A. On ATC70 models, remove the cotter pin and axle nut on the left-hand side.

NOTE

The 1970-1974 ATC90 models are also equipped with a lockwasher between the axle nut and the collar on each end. Remove the lockwasher after the axle nut is removed.

- 4B. On all other models, remove the cotter pin and axle nut (**Figure 2**) on either the right-hand or the left-hand side.
5. On the side from which the nut was removed, slide the collar (**Figure 3**) off the axle.
6. Withdraw the front axle from the wheel and the fork legs.





7A. On models equipped with a front brake, remove the spacer collar from the right-hand side.
 7B. On all other models, remove the spacer collars on each side of the hub.

8. Roll the wheel forward and remove it.

9. Install by reversing these removal steps, noting the following.

10. On models equipped with a front brake, perform the following:

a. Position the brake panel correctly when lowering the front fork down onto the axle. Once the forks are down and in position the brake panel cannot be rotated into the correct location.

b. Make sure that the notch in the brake panel is properly indexed onto the stud on the inside surface of the left-hand fork leg (Figure 4).

11. Tighten the axle nuts to the torque specification listed in Table 1. Install new cotter pin(s) and bend the ends over completely.

NOTE

Always install new cotter pins. Never reuse an old one as it may break and fall out.

12. On models equipped with a front brake, adjust the front brake as described in Chapter Three.

FRONT HUB

Refer to Figures 5-9 for this procedure. This procedure is shown on a model equipped with a front brake. The service procedures are the same for models without an integral brake drum on the front hub.

The front wheel and hub on the 1970-1974 ATC90 looks different from all other models, but service is the same.

Inspection

Inspect each wheel bearing prior to removing it from the wheel hub.

CAUTION

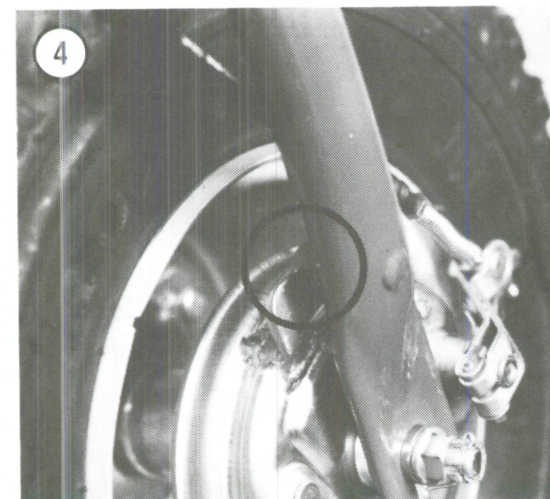
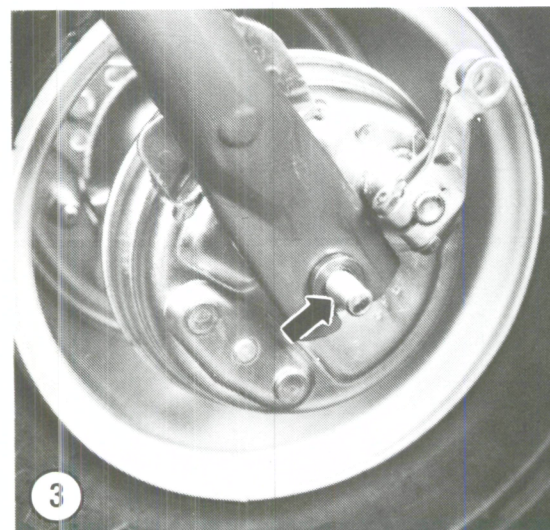
Do not remove the wheel bearings for inspection as they will be damaged during the removal process. Remove the wheel bearings only if they are to be replaced.

1. Perform Steps 1-4 of Disassembly in this chapter.

2. Turn each bearing by hand. Make sure each bearing turns smoothly.

NOTE

Some axial play is normal, but radial play should be negligible. The bearing should turn smoothly.



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